



## A framework for developing a knowledge-based decision support system for management of variation orders for inst itutional buildings

http://www.firstlight.cn 2006-05-31

This study describes the framework for developing a knowledge-based decision support system (KBDSS) for making more informe d decisions for managing variation orders in institutional buildings. The KBDSS framework consists of two main components, i.e., a knowle dge base and a decision support shell. The database will be developed through collecting data from source documents of 80 institutional projects, questionnaire survey, literature review and in-depth interview sessions with the professionals who were involved in these institutional projects. The knowledge base will be developed through initial sieving and organization of data from the database. The decision support shell would provide decision support through a structured process consisting of building the hierarchy between the main criteria and the suggested controls, rating the controls, and analyzing the controls for selection through multiple analytical techniques. The KBDSS would be capable of displaying variations and their relevant details, a variety of filtered knowledge, and various analyses of available knowledge. This would eventually lead the decision maker to the suggested controls for variations and assist in selecting the most appropriate controls. The KBDSS would a ssist project managers by providing accurate and timely information for decision-making, and a user-friendly system for analyzing and selecting the controls for variation orders for institutional buildings. The study would assist building professionals in developing an effective variation management system. The system would be helpful for them to take proactive measures for reducing variation orders. The findings from the is study would also be valuable for all building professionals in general.

存档文本

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn